P/N 145269

acdc electronics

ASTEC AMERICA, INC.
401 JONES ROAD
OCEANSIDE
CALIFORNIA 92054
619-757-1880

ASTEC

DATA INCLUDES:

Specifications
Outline and Mounting
Connection Chart
Parts List
Schematics

CASE DA MODELS

ECV12D1
ECV15D0.8

DA

SPECIFICATIONS-ECV SERIES, CASE DA, DUAL OUTPUT

AC INPUT: 100/117/220/230/240 VAC, 47-440Hz
(Derate 10% for 50Hz operation)

FUSING: See chart

DC OUTPUTS: See chart, output #2 programmable to −5 volts.*

LINE REGULATION: ±0.05% for ±10% line change

LOAD REGULATION: ±0.05% for 50% load change

OUTPUT RIPPLE: 3mV Pk-Pk typical, 2mV RMS

TRANSIENT RESPONSE: 30usec for 50% load change

OVERLOAD AND SHORT CIRCUIT PROTECTION: Current limiting and foldback. Recovery automatic.

OVERVOLTAGE PROTECTION: Optional; adjustable.
(Add −1 to model number)

TEMPERATURE RATING: Full rating, 0-50°C in free air. Derate linearly to 40% at 70°C.

TEMPERATURE COEFFICIENT: 0.02%/°C max.

REMOTE SENSING: Not available.

VIBRATION: Per Mil-Std-810C, method 514.2, proc. X, curve AW (to 50Hz)

SHOCK: Per Mil-Std-810B, method 516, proc. V.

⚠1 All units are factory adjusted for 12 volt outputs.
(Adjustment range is 11V to 16V)

*For −5V output, jumper E1 to E2 and adjust output voltage pot.

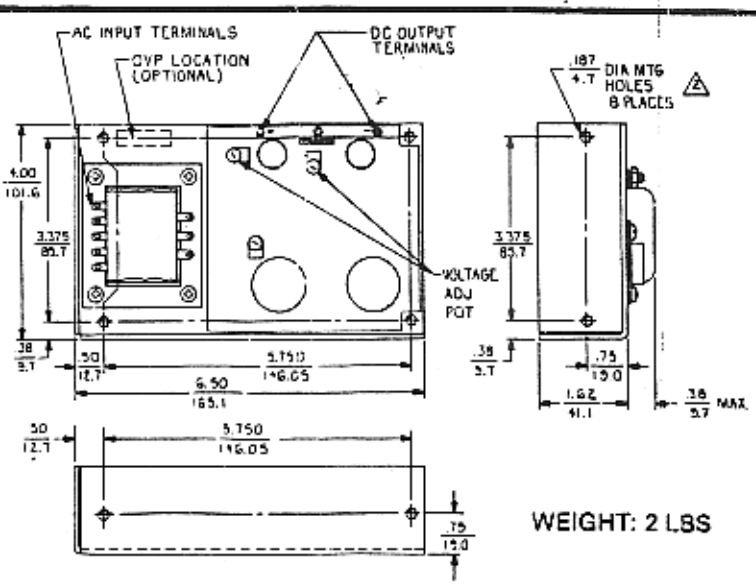
MODEL	RATING
ECV12D1	±12V, 1A OR +12V, 1A − 5V, 0.4A
ECV15D0.8 ⚠1	±15V, 0.8A OR +15V, 0.8A − 5V. 0.4A

AC CONNECTIONS AND FUSING

INPUT VOLTS	CONNECT	POWER TO	FUSE
100	1-2,3-4	1,5	1A
117	1-2,3-4	1,4	1A
220	2-3	1,5	½A
230/240	2-3	1,4	½A

WARRANTY

When used within specified operating conditions, every catalog listed ECV/ETV Power Supply is warranted to be free from defects in materials and workmanship for a period of 2 years. This warranty shall not apply to any product or parts which have been subjected to misuse, accident or abnormal conditions of operation. This warranty covers all parts of the module, including semiconductors and capacitors. All terms of the guarantee are fully transferable when the power supply is sold as original equipment. If at any time the power supply is in need of warranty service, the purchaser should promptly notify ACDC or its authorized representative describing the conditions. The method and place of warranty service will be specified by ACDC at its sole discretion. Authorized returns for warranty service should be forwarded to the specified service location freight prepaid, where, without charge, the unit will be restored. The sole obligation of ACDC and purchaser's sole/only remedy under this or any other warranty, expressed or implied, is the repair or replacement of defective modules as provided above. ACDC shall not be responsible for incidental or consequential damages, whether or not foreseeable, caused by defects in the power supply. In warranty units requiring calibration or mechanical damage repair will be charged.



ALL DIMENSIONS GIVEN AS: INCHES / MM

WEIGHT: 2 LBS

⚠2 MTG HOLES ARE CORRECT SIZE FOR INSTALLATION OF #6-32 PEM NUT.

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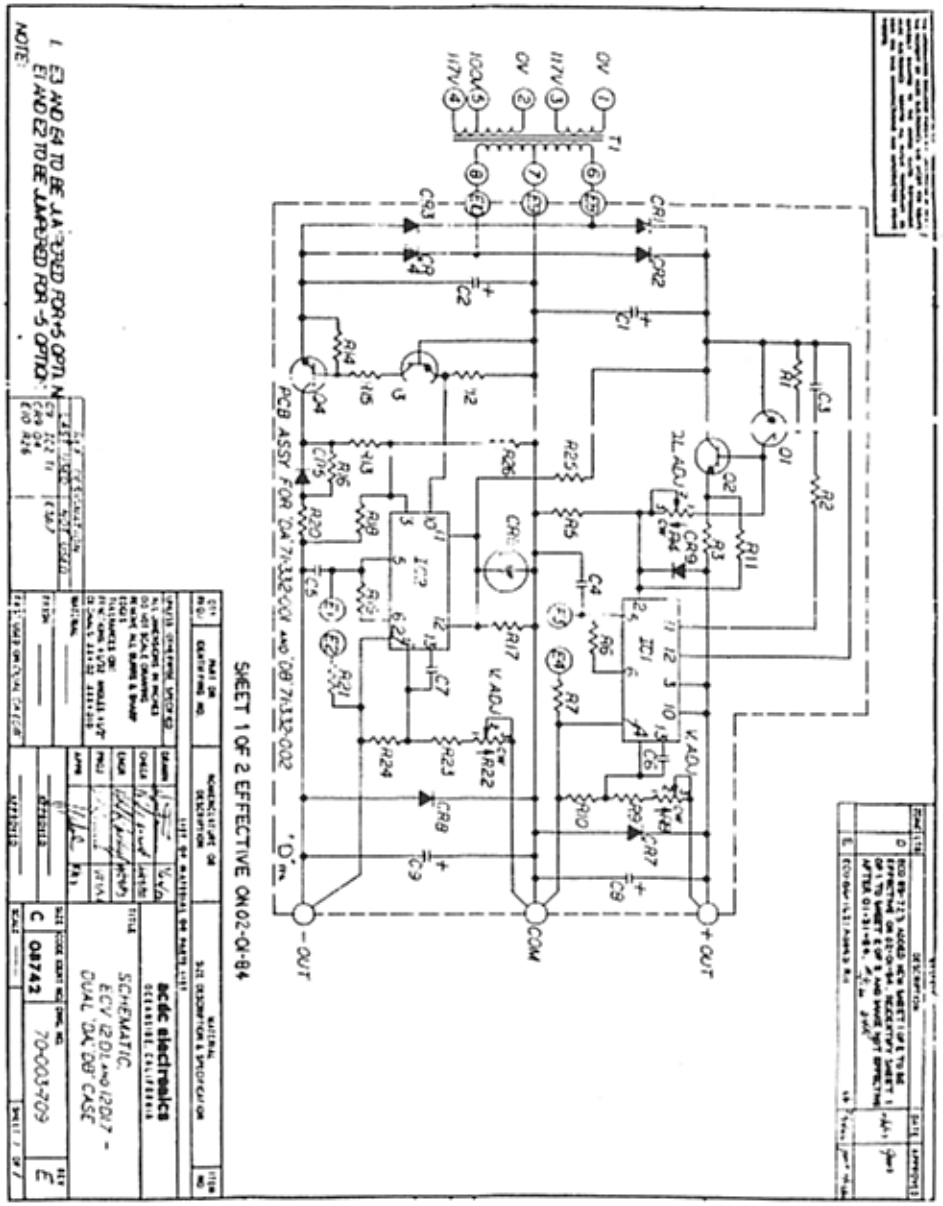

COMPONENT PARTS LIST

ECV
CASE DA - DUAL OUTPUT

70-003-012 (REV.R)	71-332-001 (REV.C)
70-006-012 (REV.J)	71-332-002 (REV.D)
70-009-012 (REV.G)	71-332-931 (REV.F)
70-010-012 (REV.T)	71-332-932 (REV.G)
70-010-936 (REV.D)	

REF.DES.	DESCRIPTION	SUGGESTED MANUF/TYPE		ACDC P/N
T1	Transformer	ACDC		52419
Q2,4	Transister	MOT SJ5898		54-031-110
C3	Capacitor	OMIT		
C3,6	Capacitor	MUR RPE122-975X7R103K100V	0.01mf/100V	67-159-103
C7	Capacitor	MUR RPE122-975X7R332K100V	0.0033mf/100V	67-159-332
C8,9	Capacitor	ILL 227RMR35M	220mf/35V	62-708-041
CR1-5,7,8	Diode	MOT 1N4004		50-464-003
CR9	Diode	GE 1N4454		50-464-045
IC1,2	Int.Ckt.	FAIRCHILD uA723PC		66-780-000
Q1	Transistor	MOT T1P32A		54-031-082
Q3	Transistor	MOT 2N4234		52-725-020
R1,7,17,21	Resistor	1.6K 5% 1/4W		55-675-162
R2,12,15, 25	Resistor	330 Ohm 5% 1/4W		55-675-331
R4,8,22	Pot	1K 20% 1/2W	MUR RVG0911V-102	70-812-102
R3,20	Resistor	0.56 Ohm 5% 2W		52-064-568
R5	Resistor	9.1K 5% 1/4W		55-675-912
R6,11,19	Resistor	2.2K 5% 1/4W		55-675-222
R9,23	Resistor	392 Ohm 1% 1/1GW		57-757-258
R10,24	Resistor	866 Ohm 1% 1/10W		57-757-291
R11	Resistor	7.5K 5% 1/4W		55-675-752
R13	Resistor	240 Ohm 5% 1/4W		55-675-241
R14	Resistor	4.7K 5% 1/4W		55-675-472
R16	Resistor	3.9 Ohm 5% 1/4W		55-675-399
R18	Resistor	1K 5% 1/4W		55-675-102
R26	Resistor	3.3K 5% 1/4W		55-675-332

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